

# Mirage®

OMD-S8  
OMD-S10  
OMD-S12

## OWNERS MANUAL

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### OMD Subwoofers



# IMPORTANT SAFETY INSTRUCTIONS – READ CAREFULLY!

## IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
17. The mains plug of the power supply cord shall remain readily operable.

**WARNING :** To reduce the risk of fire or electric shock , do not expose this apparatus to rain or moisture .



The lightning flash with arrowhead symbol. Within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## INTRODUCTION

Congratulations on your purchase of MIRAGE® speakers! Proprietary technology and high quality manufacturing will allow you to enjoy the most natural and accurate music reproduction for many years. The advice offered in this manual is aimed at helping you maximize and maintain peak performance, and therefore, your listening satisfaction. Please take the time to read all of the instructions contained in this manual to make certain your system is properly installed and functioning correctly.

## COMPANY BACKGROUND

MIRAGE® speakers are the result of extensive research into accurate sonic reproduction and represent the leading edge in speaker design and performance. The finest components and cabinet materials combined with sophisticated manufacturing and quality control procedures ensure many years of exceptional performance and listening pleasure.

## BREAK-IN PERIOD

We strongly advise that you resist the temptation to play the MIRAGE® speakers to their full capabilities or experiment with critical placement and listening until they have been properly broken in. This process should last approximately 50 hours. This can be easily be done by putting your compact disc player on Repeat mode, while playing a CD with a wide dynamic range at normal listening levels.

## CABINET CARE

Great care and craftsmanship has gone into the construction and finish of the cabinet. Periodically use a soft, dry cloth to remove dust or fingerprints. Do not use paper towels or other abrasive materials as it may damage the finish.

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**NOTE:** Please retain the carton and packing material for your MIRAGE® products, to protect them in the event of a move or if they need to be shipped to a service center. Product received damaged by a service center that has been shipped by the end user in other than the original packaging will be repaired, refurbished and properly packaged for return shipment, at the end user's expense.

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## SUBWOOFER PLACEMENT

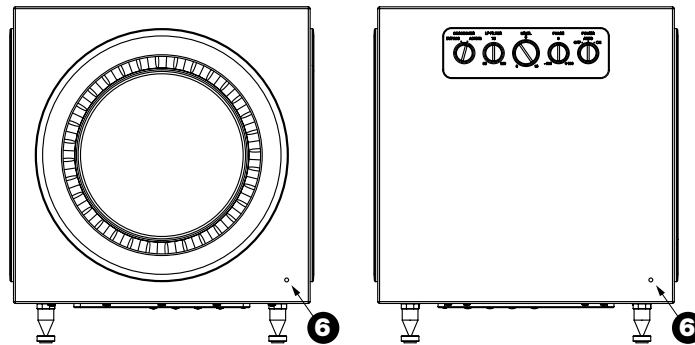
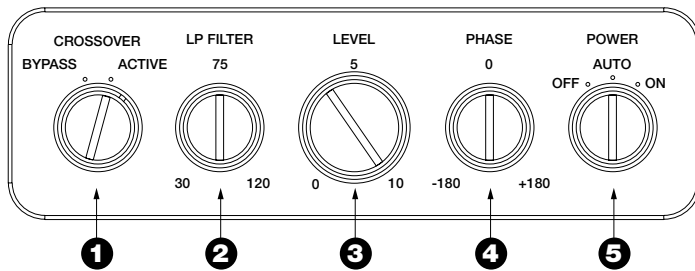
The placement of your new MIRAGE® subwoofer is critical to its performance. The three most common locations include: in the corner of the room (which can result in a boomy or exaggerated low frequency response), placement along one wall but out of the corner (moderate bass performance with increased fidelity over corner placement), or alongside a front speaker (creating a better blend with the front speaker, but sacrificing overall volume). Experimentation with subwoofer placement is highly encouraged, as slight adjustments can create large benefits in sound reproduction. To further test subwoofer placement, install the subwoofer temporarily in your main listening position and while playing a familiar piece of music, walk around the listening room until you find the best sounding position. This is a possible location for the subwoofer to be placed.

The OMD-S8, OMD-S10 and OMD-S12 can be faced in many different directions, depending on your particular installation. This is totally acceptable sonically, but there will be some sonic variations as the subwoofers' orientation is changed. For example, a subwoofer with the active driver facing into the room will sound different than the subwoofer facing into the corner.

## TERMINOLOGY AND CONTROLS

### FRONT PANEL

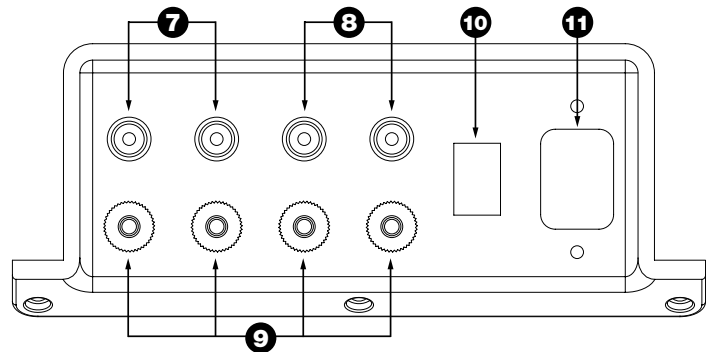
1. Crossover Mode – This switch allows for the selection of either crossover Activated or Crossover Bypassed. (Please see the connections section for suggestions on which mode is appropriate for your installation.)
2. LP FILTER – This control allows for the adjustment of the low-pass filter. Adjustments can infinitely be made from 30Hz to 150Hz. This will determine the highest frequency that the subwoofer will reproduce. This control will only function when Crossover Mode (#1) is set in Active mode.
3. Subwoofer Volume Control - This knob can be adjusted to control the level of output from your subwoofer. The level chosen should allow the subwoofer to blend its output with that of the rest of your audio system.
4. Phase Control – This allows for the infinite adjustment of the phase of the subwoofer, in relation to the speakers used in your system, from -180 degrees to +180 degrees.
5. Power Mode – This switch can be set to either On, Off or Auto. If the switch is in the Off position, the subwoofer will not power up. If the switch is in the On position, it will constantly remain on. If the switch is set to the Auto position, when a signal is present the subwoofer will turn on and will automatically turn off several minutes after a signal is no longer present.
6. Status Indicator – The LED found on the front and rear panels will illuminate in blue when the subwoofer is functioning. If the unit is in Auto mode and is not receiving a signal, the light will remain off.



### BOTTOM PANEL

7. Sub Low Level Inputs – These inputs are an RCA type LFE/stereo/mono input. If you are connecting your subwoofer to a pre-amp/processor with a LFE or Subwoofer pre-amp output, connect a single RCA cable to the LFE/Left input. If you are connecting your subwoofer to a stereo pre-amp or processor, such as in a stereo music system, use stereo RCA cables and connect to both the LFE/Left and Right inputs.
8. Low Level Outputs – These outputs are an RCA type stereo output. These outputs feature a high-pass filter at 80Hz, 6dB per octave. These should be connected to the inputs on your power amplifier, when using a stereo music system.

9. High-Level Input – These are 5-way binding post type speaker connectors. The High-Level inputs are designed to be used on receivers or amplifiers that do not incorporate any RCA type subwoofer outputs. If your receiver is equipped with an RCA type subwoofer output, these speaker level inputs should not be utilized.
10. Main Power switch. In the off position the subwoofer will not function. In the on position the subwoofer is receiving power. You must select the front Power Mode switch to the correct position before the subwoofer will operate.
11. Power Cord connector. Connect the power cord from you're A/C outlet to this input. Connecting your subwoofer to a surge protector or line conditioner is always recommended. **Do not connect the power cord to the switched or unswitched outlet of your receiver as this could damage your subwoofer and receiver.**



### SPIKES

Spikes are included with every speaker and are designed to decouple the speaker from the floor. With the speaker upside-down (be sure to protect the speaker surface when doing this), insert the spikes into the threaded insert in the base. Using the supplied wrench, tighten the nut on each spike, to ensure a sturdy and stable footing is established. The nuts also allow for the speaker balance to be fine tuned when the speaker is standing up, ensuring the speaker is level and plumb. If your flooring is hardwood or a hard surface like tile, laminate flooring, etc, the included protective discs are designed to be placed between the spike and the floor, with the padded side down, to protect your flooring. Simply lay the protective discs on the floor and position the speaker so the point of the spike fits into the hole in the top of the protective disc.

### CONNECTING YOUR MIRAGE SUBWOOFER

**CAUTION:** All power should be turned off to your system before any connections are made. Careful attention should be taken to ensure that all electronic components are not connected to an AC source. Not doing so could result in potential damage to the system.

There are two mutually exclusive methods to connect your subwoofer to your receiver.

#### METHOD 1 – RCA – FOR HOME THEATER OR LFE APPLICATIONS

1. On the rear of the receiver/pre-amp there should be a single RCA type jack marked "Subwoofer/Pre-Amp Out". Connect a single RCA cable from that jack to the LFE/Left Input (#7) on the bottom of the subwoofer. A standard male to male RCA cable is needed.
2. After connecting the single low level Sub In (#7) connection, plug your MIRAGE® subwoofer into an AC outlet. Do not use the AC outlet on the rear of your receiver. After plugging in the unit, switch the Main Power to On.

3. Select either the Crossover Mode Active or Bypass (#1). The Crossover Mode Active switch position should be used when connecting your MIRAGE® subwoofer to a receiver without bass management or when you wish to manually control the crossover and volume settings (such as in a music system).  
The Crossover Bypass switch position should be used when connecting to a receiver with bass management (such as in a digital surround sound movie system). This connection defeats the crossover feature on the MIRAGE® subwoofer, allowing this control to be handled by the receiver. Adjusting the front panel Volume Control (#3) will still be required.
4. Ensure that the high-level speaker inputs have been securely tightened, as this ensures that the inputs will not vibrate audibly.
5. See Final System Adjustments, below.

## METHOD 2 – STEREO APPLICATIONS

1. On the rear of the receiver/pre-amp there should be stereo (left and Right) RCA type jacks marked “Left and Right Pre-Amp Outputs”. Connect a pair of RCA cables from those jacks to the LFE/Left Input and Right Input (#7) on the bottom of the subwoofer. A standard male to male RCA cable is needed.
2. After connecting the stereo low level Inputs (#7) connection, plug your MIRAGE® subwoofer into an AC outlet. Do not use the AC outlet on the rear of your receiver. After plugging in the unit, switch the Main Power to On.
3. Select the Crossover Mode Active. The Crossover Mode Active switch position should be used when connecting your MIRAGE® subwoofer to a receiver without bass management or when you wish to manually control the crossover and volume settings (such as in a music system). Adjusting the front panel Volume Control (#3) will still be required.
4. When connecting bookshelf/satellite speakers that have limited bass output you can use the Low Level Outputs on your subwoofer to eliminate low frequencies from being sent to your small speakers. Connect the Left and Right Outputs to the left and right inputs on your stereo amplifier. The Stereo Outputs (#8) are filtered at 80Hz, 6db/octave. This should provide you with greater system dynamic range.
5. Ensure that the high-level speaker inputs have been securely tightened, as this ensures that the inputs will not vibrate audibly.
6. See Final System Adjustments, below.

## METHOD 3 – SPEAKER LEVEL – FOR MUSIC APPLICATIONS

1. The other way to connect your subwoofer to your receiver is using a High-Level (#9) (speaker wire) connection, by simply connecting the speaker wires from the Front Left and Right Speaker Outputs on your receiver to the Left and Right Inputs on the bottom of the subwoofer (#8). It is imperative that speaker polarities be maintained, one must connect the positive and negative wires to the appropriate positive and negative terminals. Failure to do so will result in an out of phase connection, severely limiting the amount of bass in your system.
2. After connecting the High-Level (#9) (speaker wire) between your receiver and subwoofer, ensure no fray wires are touching, as this could cause a short circuit and damage your electronics. Plug your MIRAGE® subwoofer into an AC outlet. Do not use the AC outlet on the rear of your receiver.
3. See Final System Adjustments, below.

**Do NOT connect both RCA and High-Level connections simultaneously, as this will damage your MIRAGE® subwoofer.**

## FINAL SYSTEM ADJUSTMENTS

1. After having turned on the main power switch and having broken-in the speaker, select the correct position for the Power Mode switch (#5), either On or Auto depending on your system. The Auto selection will leave the unit in a self-sensing mode, such that should the unit sense an audio signal it will turn itself on and then shut down after several minutes without signal, while in the On position the subwoofer always remains on. Should the system not be used for an extensive period of time, it is recommended that the subwoofer be unplugged from the AC outlet or the Main Power Switch (#9) be turned to the OFF position.
2. Adjust the Volume Control (#3) on the front panel of your MIRAGE® subwoofer so that the volume of your subwoofer matches the overall system volume. This ensures a smooth transition between the low and high frequencies of your system.
3. Adjust the LP Filter Setting (#2) on your MIRAGE® Speakers subwoofer so that the frequency range of the subwoofer blends well with that of the front speakers (For use with all settings, except when in Crossover Mode Bypass). Setting the crossover too low will create a gap between the frequency response of the front speakers and that of the subwoofer, while setting the crossover frequency too high will create a doubling of certain frequencies, making the music sound boomy. When using small satellite speakers, the appropriate crossover frequency should be from 90Hz to 150Hz, for the bookshelf speakers 70Hz to 90Hz and for the large floorstanding speakers 30Hz to 70Hz.
4. Adjust the Phase control (#4) so that the subwoofer integrates fully with the rest of your audio system. This control is infinitely adjustable and ensuring that the subwoofer operates in phase with the rest of the system is critical, as an out of phase subwoofer will either sound like it is lacking in bass performance or that its timing is off. This setting will be determined by your listening position, the characteristics of your listening room and its interaction with your MIRAGE® subwoofer. An out of phase speaker means that the speaker cone is moving inwards when it should be moving outwards, like the other speakers in your system, causing cancellations of certain frequencies. By adjusting the phase control, one can ensure that all speakers move in the proper direction, at the same time.
5. Steps 2, 3 and 4 might require repeating in order to fine tune your system. Ensuring the proper blending between the speakers and the subwoofer is critical to the performance of your system, as a whole.

## WARRANTY OUTSIDE OF THE UNITED STATES

Outside of North America, the warranty may be changed to comply with local regulations. Ask your local MIRAGE® dealer for details of the LIMITED WARRANTY applicable in your country.

## WARRANTY FOR THE UNITED STATES AND CANADA

Please see the warranty document on the back cover

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